

Amendment to Claims

Reference characters enclosed within parentheses without markings for each claim.

Claim 1. (currently amended) A door closer which is fabricated in a hydraulic or air cylinder shape in its body and being installed to a door (10) or a doorframe (11),

wherein a subsidiary plate (9a) with a subsidiary pin (9b) is assembled to a door mounting device (9) installed at ~~[[a]]~~ the door (10), and a rotatable force adjustment nut (7) ; ~~which is rotatable to right or left side,~~ is assembled to the subsidiary plate (9a) so that it can change the position of a piston rod (3) to the door (10) or to ~~[[a]]~~ the doorframe (11);

wherein a cylinder (1) is assembled to a doorframe mounting device (8) installed at the doorframe (11), a surface of the cylinder (1) being ~~provided with~~ hemi-cylindrical ~~shaped protrusions,~~ in which an oil-hole is formed and a speed adjustment bolt is assembled at end thereof, extending linearly in the longitudinal direction along ~~[[,]]~~ a piston (2), and a spring (5) is mounted in the cylinder (1) and hydraulic oil containing a little amounts of air is filled in the cylinder (1), the piston rod (3) is extending from an inner side to an outer side of the cylinder (1), one end of the piston rod (3) being provided with the piston (2) and the other end thereof being provided with male screw (3a) in which minor diameter of an external thread is greater than a diameter of the piston rod (3); and

wherein the door mounting device (9) including the force adjustment nut (7), subsidiary plate (9a) and subsidiary pin (9b), and the doorframe mounting device (8) including the cylinder (1), the piston rod (3) and the male screw (3a), can be assembled and separated from each other by the force adjustment nut (7) provided at the door mounting device (9), and the male screw (3a) provided at the one end of the piston rod (3).

Claim 2. (currently amended) The door closer of claim 1, wherein an additional supporter (8a) of a rectangular shape is ~~can be, if needed,~~ provided at lower surface of the doorframe mounting device (8), a longitudinal and transverse length thereof being identical with those of the lower surface of the doorframe mounting device (8), and holes corresponding to screw holes formed at lower surface of the doorframe mounting device (8) is formed at the additional supporter 8a so as to fix the doorframe mounting device (8) to the doorframe (11), with forming an additional central hole in the supporter (8a) for assembling with the doorframe mounting device (8).

Claim 3. (currently amended) The door closer of claim 2, wherein the additional supporter (8a) is made of materials selected from plastic group.

Claim 4. (currently amended) The door closer of claim 1, wherein the piston (2) is provided with a hole (2a) and is connected to one end of the piston rod (3), an catch rod (2a') being formed at the hole (2a) and a ball (2b) is received therein, and the male screw (3a) is formed or attached to other end of the piston rod (3) ~~so that the piston rod (3) can be moved in the force adjustment nut (7)~~, the minor diameter of an external thread being greater than the diameter of the piston rod (3).

Claim 5. (currently amended) The door closer of claim 1, wherein the force adjustment nut (7) is exposed to outside to make it easy to mount and control force, an female screw being formed at inside of the force adjustment nut (7) ~~so that the piston rod (3) can be moved in the force adjustment nut (7)~~, the minor diameter of the internal thread being greater than the diameter of the piston rod (3), and ~~in addition~~, the force adjustment nut (7) has a cylindrical shape with a big central through-hole extending therethrough, ~~one end of it being blocked by a round plate with a small central through-hole.~~